OBDAN 91

PESTICIDES (cont)

Abstract

584 (P147) **Inhalation toxicity of suspended particulate pesticide [redacted]ion**
M Ando, K Tamura, S Asanuma, S Matsushima & [redacted]ahara (Tsukuba, Usuda & Shiojiri, Japan)

585 (P148) **Storage of HCH in people with different degrees of exposure to technical HCH in Brazilian cocoa culture**
W A Carvalho, P R Berbert & N V P Rocha (Salvador, Brazil)

586 (P149) Toxicokinetics of permethrin in rats after oral administration
M R Martinez-Larrañaga, A Anadon, M J Diaz, P Bringas & C Velez (Madrid, Spain)

587 (P150) Acute intoxication by aldrin: relationship between clinical signs and serum levels in man
W A Carvalho, G B Mates, S L B Cruz & D S Rodrigues (Salvador, Brazil)

588 (P151) Toxicity of endosulphan to frog
A Kumar, A Srivastava & M P Singh (Agra, India)

589 (P152) Protective effects of diazepam and midazolam in rats poisoned with highly toxic organophosphorus compounds
D Bokonjic, M Jokanovic, N Rosic & M Maksimovic (Belgrade, Yugoslavia)

590 (P153) The study of the role of vitamin E and other antidotes in the prevention and treatment of paraquat toxicity
K Sriwatanakul, R Sawises & P Temchatoen (Bangkok, Thailand)

IN VIVO AND *IN VITRO* GENOTOXICITY (Abstracts 591-604)

Chairmen: D Anderson (Carshalton, UK) and P Maier (Zurich, Switzerland)

Posters will be displayed in the **Hewison Hall**. The Discussion Group will be held in the **Albert Room, Grand Hotel**.

591 (P159) Structure activity relationships in the genotoxicity of methylated and non-methylated chrysoidine azo dyes
P Sandhu & J K Chipman (Birmingham, UK)

592 (P160) Mutagenicity of nitrated polycyclic aromatic hydrocarbons in different *Salmonella* tester strains and rat microsomal activation system
J-K Lin, I W Hsu & P P Fu (Taipei, Taiwan & Jefferson, USA)

593 (P161) *In vivo* mutagenicity of the anthraquinone, danthron
J Allen, D Donnell & S Elmd (St Paul, USA & Loughborough, UK)

594 (P162) *In vitro* cell transformation systems for the detection of cancerogenic effects of chemical and pharmaceutical substances
H Buchner, A Poth & H G Miltenburger (Darmstadt, FRG)

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THURSDAY 20 JULY [redacted]

IN VIVO AND *IN VITRO* GENOTOXICITY (cont)

Abstract

595 (P163) **Unscheduled DNA synthesis and cytotoxicity in human lymphocytes with mainstream cigarette smoke particles**
G Liu, F Wang, J Li & T Ding (Jinan, China)

596 (P164) **Studies on genetic toxicity of synthetic detergent**
T Ding & F Wang (Jinan, China)

597 (P165) ***In vitro* cytotoxicity and morphological transformation of human lung cells with mainstream cigarette smoke particles**
T Ding, C Liu, F Wang & J Li (Jinan, China)

598 (P166) **Genotoxicity of 3 isomeric sulphur containing polycyclic aromatic hydrocarbons**
P Schmezer, G Grimmer, P Klein & B L Pool (Heidelberg & Grosshansdorf, FRG)

599 (P167) **Comparative study on the modifying effect of essential metals and plant extract on the clastogenicity of lead and nickel in mouse bone marrow cells**
K Agarwal, H Dhir, A Sharma & G Talukder (Calcutta, India)

600 (P168) **Studies on cathinone induced chromosomal and spermatozoal abnormalities in mice**
M Tariq, S Qureshi, A M Ageel, F S El-Feraly & I A Al-Meshal (Riyadh, Saudi Arabia)

601 (P169) ***In vivo* mutation assay in mouse intestine**
D J Winton & B A J Ponder (Sutton, UK)

602 (P170) **Detection of aneuploidy inducing chemicals by single cell DNA analysis in rat tissues**
P Maier & H P Schwalder (Zurich, Switzerland)

603 (P171) **The role and place of the study of genotoxicity in the system of development of new drugs**
G Zolotareva, Y Bobrinev, N Ostapenko & L Radchenko (Moscow, USSR)

604 (P172) **Unscheduled DNA synthesis (UDS) in human hair follicles after *in vitro* exposure to 14 chemicals**
Y H M Van Erp, P R C M Heirbaut, M J E Koopmans & P J J M Weterings (Hertogenbosch, The Netherlands)

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THURSDAY 20 JULY

2000 **WORKSHOPS Brighton Metropole Hotel**

There are a limited number of places at each Workshop and admission is by pre-booked ticket.

W7 MAJOR CHEMICAL ACCIDENTS
Balmoral Room
Organiser: J A Vale (Birmingham, UK)

W8 EDUCATION IN TOXICOLOGY
Buckingham Room
Organisers: T Malmfors (Stockholm, Sweden) and A D Dayan (London, UK)

W9 EMERGING ISSUES IN THE EVALUATION OF FOOD PRODUCTS FROM BIOTECHNOLOGY
Edinburgh Room
Organisers: J C Kirschmann (Winston-Salem, USA) and D M Conning (London, UK)

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THURSDAY 20 JULY

PESTICIDES (cont)

Abstract

568 (P131) Paraquat toxicity in selenium-deficient mice
S Himeno, M Noguchi & N Imura (Tokyo, Japan)

569 (P132) Some aspects concerning the toxicological properties of humic acids, solitary agents in new veterinary pharmaceuticals
V Fuchs & M Kuehnert (Leipzig, GDR)

570 (P133) Sub-chronic toxicity studies on monocrotophos in dogs
A Janardhan & P Sisodia (Hyderabad & Bangalore, India)

571 (P134) Pharmacological screening and structural elucidation of "otapiapia" - a rural Nigerian indigenous pesticide
H O Kwanashie, G J Amabeoku, E O Afolabi, J Auta & F Y Abuh (Zaria, Nigeria)

572 (P135) Ultrastructural changes in the hepatocytes of catfish exposed to endosulfan
B Nowak (Sydney, Australia)

573 (P136) Cholinesterase inhibition and recovery in monocrotophos- and acephate-fed rat
C-Y Hsin & W-H Lin (Wufeng, Taiwan)

574 (P137) Effect of paraquat on serum ceruloplasmin and α-macroglobulin levels in rabbits
F Akahori, T Masaoka & S Arai (Sagamihara, Japan)

575 (P138) Toxicity and accumulation of endosulfan in lambari (*Hyphessobrycon bifasciatus*)
M C Toledo, C M Jonsson & Y Yokomizo (Campinas, Brazil)

576 (P139) Chemically induced eosinophilic changes of the epithelial cells with or without crystalline deposits in the upper respiratory and digestive systems in mice
Y Nakao, R Ueki, M Tatematsu & S Fukushima (Ritto & Nagoya, Japan)

577 (P140) Chemically induced intracristal inclusion bodies in mitochondria of hyperplastic mouse stratified squamous epithelium
R Ueki, Y Nakao, M Furukawa & T Wakabayashi (Ritto & Nagoya, Japan)

578 (P141) Aluminium phosphide poisoning: an experimental study
P L Sharma, C S Gautam & P Pandit (Chandigarh, India)

579 (P142) Pesticides and human health, study of five years in Campinas, Brazil
F Zambrone, (Campinas, Brazil)

580 (P143) Genotoxic evaluation of pesticides in short term tests
P Brelia, M Paolini, G L Biagi & G Camelli-Forti (Bologna, Italy)

581 (P144) Study of cardiotoxic effects of azinophos methyl in guinea pigs
M Balali-Mood, F Akhavan & F Rahani (Mashhad, Iran)

582 (P145) Non-cholinergic toxicity of organophosphorus insecticides in rats
S Tsuda, T Kojima, T Ikeda, H Takahashi & Y Shirasu (Musukaido, Japan)

583 (P146) Particular features of acute organophosphorous poisoning
R B Carrington da Costa, J Pimentel, A Rebelo, J Gonçalves & J Costa (Coimbra, Portugal)

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FRIDAY 21 JULY

0845-1115 **SYMPOSIUM 10 Brighton Centre**

Clinical and experimental studies of environmental neurotoxins

Chairmen: P Spencer (Portland, USA) and P Preziosi (Rome, Italy)

	Abstract	
0845-0915	605	**Mechanisms of neurotoxicity of low molecular weight spider venom toxins** P. N R Usherwood, A J Mather, B W Bycroft, & I S Blagbrough (Nottingham, UK)
0915-0945	606	Occurrence and mechanism of action of marine neurotoxins T. Narahashi (Chicago, USA)
0945-1015	607	Mycotoxin induced encephalopathy and dystonia in children F He, S Zhang, C Li, F Qia, X Liu & X Lo (Beijing, China)
1015-1045	608	Cassava associated neurotoxicity in Africa. H Rosling (Uppsala, Sweden)
1045-1115	609	Chemical toxicity as a basis for age related neurological disease in man P Jenner (London, UK)

0845-1115 **SYMPOSIUM 11 Brighton Metropole Hotel**

Mechanisms of chemically-induced cell injury

Joint Symposium with the Toxicology Section of the International Union of Pharmacology (IUPHAR)

Chairmen: J B Hook (King of Prussia, USA), and F Oesch (Mainz, FRG)

0845-0915	610	The role of the calcium ion in cytotoxicity S Orrenius, D J McConkey, & P Nicotera (Stockholm, Sweden)
0915-0945	611	Ion regulation and cell injury T Jones (Baltimore, USA)

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EXHIBITION STAND DESCRIPTION [redacted]

AIMS & TORPAC — STAND 12

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The services which BIBRA offers in toxicology are the theme of the display which features descriptive literature. The main services are Information & Advice, Consultancy, Contract Research and Testings, Clinical Studies and Teaching.

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FRIDAY 21 JULY [redacted]

Mechanisms of chemically-induced cell injury (cont)

	Abstract	
0945-1015	612	Cytotoxicity via interactions with DNA E Dybing, G Brunborg, J E Dahl, J A Holme, M Låg, S D Nelson, J G Omichinski, P G Pearson & E J Søderlund (Oslo, Norway; Bethesda & Seattle, USA)
1015-1045	613	Microsomal lipid peroxidation and the role of antioxidants H Sies & M Murphy (Düsseldorf, FRG)
1045-1115	614	Cell death through apoptosis and its relationship to carcinogenesis R Schulte-Hermann, W Bursch & F Pühringer (Vienna, Austria)

1130-1230 PLENARY LECTURE Brighton Centre

Chairman: W N Aldridge (Carshalton, UK)

Structural and biochemical basis for neurotoxicity

P Spencer (Portland, USA)

1230-1300 CLOSING SESSION Brighton Centre

D S Davies, Chairman, ICT V Executive Committee

P Gehring, President, International Union of Toxicology

P Preziosi, Chairman, ICT VI Executive Committee

FRIDAY

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EXHIBITION STAND DESCRIPTION [redacted]

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Huntingdon Research Centre will be represented by senior scientific staff from the Toxicology and the Industrial and Environmental Divisions. These scientists will be pleased to discuss any aspects of the safety testing programmes required by the pharmaceutical, agrochemical and industrial chemical industries which visitors to the exhibition wish to raise.

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